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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,540	03	3/10/2004	Sergey Savastiouk	M-15302-1P US	6386
32605	7590	11/03/2005	EXAM	EXAMINER	
		OK CHEN & HE DRIVE, SUITE 220	LEE, K	LEE, KYOUNG	
SAN JOSE,			ART UNIT	PAPER NUMBER	
·				2812	

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s) -				
. 🐱	10/798,540	SAVASTIOUK ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Kyoung Lee	2812				
The MAILING DATE of this communication app						
Period for Reply		·				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. tely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 3/10/	<u> 2004</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims		•				
4) ⊠ Claim(s) 1-53 is/are pending in the application. 4a) Of the above claim(s) 1-45 is/are withdrawr 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 46-53 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	n from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>10 March 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/102004.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 46-53 are rejected under 35 U.S.C. 102(b) as being anticipated by DeFelice et al. (U.S. Patent No. 6,190,940).

In claim 46, DeFelice disclose a method forming one or more conductive contact pads (22) in a first substrate (21), and forming dielectric over the one or more contact pads (23), with the dielectric having one or more openings (31) which overlie the contact pads and also overlie one or more regions adjacent to the contact pads (see figures 2-4, and column 5, lines 5-50).

In claim 47, DeFelice disclose a method wherein the regions adjacent to the contact pads are less solder wettable than the contact pads (see column 6, lines 33-60).

In claim 48, DeFelice disclose a method wherein the regions adjacent to the contact pads are dielectric regions (see column 6, lines 33-60).

In claim 49, DeFelice disclose a method placing solder paste (**35**) into the one or more openings (**31**) and heating the solder paste to melt the solder (see figures 5-7, and column 5, lines 37-50).

In claim 50, DeFelice disclose a method comprising soldering one or more contact pads (38) of the a second substrate (37) to the one or more contact pads (22) of

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the first substrate with solder obtained from the solder paste (35) (see figure 8, and column 6, lines 24-60).

In claim 51, DeFelice disclose a method wherein the second substrate is a semiconductor integrated circuit (see column 6, lines 24-26).

In claim 52, DeFelice disclose a method wherein the first substrate is a semiconductor integrated circuit (see column 5, lines 5-8).

In claim 53, DeFelice disclose a method wherein the first substrate is an integrated circuit packaging substrate, which does not include a semiconductor substrate (see column 4, lines 35-39).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyoung Lee whose telephone number is (571) 272-1982. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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JENNIFER KENNEDY
PRIMARY EXAMINED

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